

# REPLACEMENT SHEET

## FIG. 2A

	(SEQ ID NO. 28)	Q V Q L Q Q S G P E L V K P
KRI27VH	(SEQ ID NO. 27)	CAG GTC CAG CTG CAG CAG TCT GGA CCT GAA CTG GTG AAG CCT 42
	(SEQ ID NO. 44)	Q V Q L V Q S G A E V K K P
DP7-JH4	(SEQ ID NO. 43)	CAG GTG CAG CTG GTG CAG TCT GGG GCT GAG GTG AAG AAG CCT
HZI	(SEQ ID NO. 35)	CAG GTC CAG CTG GTG CAG TCT GGA GCT GAA GTG GTG AAG CCT
HZVII	(SEQ ID NO. 1)	CAG GTC CAG CTG GTG CAG TCT GGA GCT GAA GTG AAG AAG CCT
HZI	(SEQ ID NO. 36)	- - - - V - - - A - V - - -
HZVII	(SEQ ID NO. 2)	- - - - V - - - A - V K - -
	(SEQ ID NO. 28)	G A S V K I S C K A S G Y A
KRI27VH	(SEQ ID NO. 27)	GGG GCC TCA GTG AAG ATT TCC TGC AAA GCT TCT GGC TAC GCA 84
	(SEQ ID NO. 44)	G A S V K V S C K A S G Y T
DP7-JH4	(SEQ ID NO. 43)	GGG GCC TCA GTG AAG GTT TCC TGC AAG GCA TCT GGA TAC ACC
HZI	(SEQ ID NO. 35)	GGG GCC TCA GTG AAG GTT TCC TGC AAA GCT TCT GGC TAC GCA
HZVII	(SEQ ID NO. 1)	GGG GCC TCA GTG AAG GTT TCC TGC AAA GCT TCT GGC TAC ACC
HZI	(SEQ ID NO. 36)	- - - - V - - - - - - - -
HZVII	(SEQ ID NO. 2)	- - - - V - - - - - - - - T
	(SEQ ID NO. 28)	F S <u>S S</u> <u>CDR1</u> <u>W M N</u> W V K Q R P G
KRI27VH	(SEQ ID NO. 27)	TTC AGT AGT TCT TGG ATG AAC TGG GTG AAG CAG AGG CCT GGA 128
	(SEQ ID NO. 44)	F T S Y Y M H W V R Q A P G
DP7-JH4	(SEQ ID NO. 43)	TTC ACC AGC TAC TAT ATG CAC TGG GTG CGA CAG GCC CCT GGA
HZI	(SEQ ID NO. 35)	TTC AGT AGT TCT TGG ATG AAC TGG GTG CGA CAG GCC CCT GGA
HZVII	(SEQ ID NO. 1)	TTC ACC AGT GCT TGG ATG AAC TGG GTG CGA CAG GCC CCT GGA
HZI	(SEQ ID NO. 36)	- - - - - - - - R - A - -
HZVII	(SEQ ID NO. 2)	- T - A - - - - - R - A - -
	(SEQ ID NO. 28)	Q G L E W I G <u>CDR2</u> <u>R I Y P G D G</u>
KRI27VH	(SEQ ID NO. 27)	CAG GGT CTT GAG TGG ATT GGA CGG ATT TAT CCT GGA GAT GGA 168
	(SEQ ID NO. 44)	Q G L E W M G I I N P S G G
DP7-JH4	(SEQ ID NO. 43)	CAA GGG CTT GAG TGG ATG GGA ATA ATC AAC CCT AGT GGT GGT
HZI	(SEQ ID NO. 35)	CAG GGT CTT GAG TGG ATT GGA CGG ATT TAT CCT GGA GAT GGA
HZVII	(SEQ ID NO. 1)	CAG GGT CTT GAG TGG ATG GGA CGG ATT TAT CCT AGT GGT GGA
HZI	(SEQ ID NO. 36)	- - - - - - - - - - - -
HZVII	(SEQ ID NO. 2)	- - - - - M - - - - - S G -

## REPLACEMENT SHEET

FIG. 2B

	(SEQ ID NO. 28)	D T N Y N G K F K G K A T L
KRI27VH	(SEQ ID NO. 27)	GAT ACT AAC TAC AAT GGG AAG TTC AAG GGC AAG GCC ACA CTG 210
	(SEQ ID NO. 44)	S T S Y A Q K F Q G R V T M
DP7-JH4	(SEQ ID NO. 43)	AGC ACA AGC TAC GCA CAG AAG TTC CAG GGC AGA GTG ACC ATG
HZI	(SEQ ID NO. 35)	GAT ACT AAC TAC GCA CAG AAG TTC CAG GGC AAG GCC ACA CTG
HZVII	(SEQ ID NO. 1)	AGC ACT AGC TAC GCA CAG AAG TTC CAG GGC AGA GTG ACA ATG
HZI	(SEQ ID NO. 36)	- - - - A Q - - Q - - - -
HZVII	(SEQ ID NO. 2)	S - S - A Q - - Q - R V - M
	(SEQ ID NO. 28)	T A D K S S S T A Y M Q L S
KRI27VH	(SEQ ID NO. 27)	ACT GCA GAC AAA TCC TCC AGC ACA GCC TAC ATG CAG CTC AGC 252
	(SEQ ID NO. 44)	T R D T S T S T V Y M E L S
DP7-JH4	(SEQ ID NO. 43)	ACC AGG GAC ACG TCC ACG AGC ACA GTC TAC ATG GAG CTG AGC
HZI	(SEQ ID NO. 35)	ACT GCA GAC AAA TCC ACG AGC ACA GCC TAC ATG GAG CTC AGC
HZVII	(SEQ ID NO. 1)	ACT GCA GAC AAA TCC ACG AGC ACA GTC TAC ATG GAG CTC AGC
HZI	(SEQ ID NO. 36)	- - - - T - - - - E - -
HZVII	(SEQ ID NO. 2)	- - - - T - - V - - E - -
	(SEQ ID NO. 28)	S L T S V D S A V Y F C A R
KRI27VH	(SEQ ID NO. 27)	AGC CTG ACC TCT GTG GAC TCT CGG GTC TAT TTC TGT GCA AGA 294
	(SEQ ID NO. 44)	S L R S E D T A V Y Y C A R
DP7-JH4	(SEQ ID NO. 43)	AGC CTG AGA TCT GAG GAC ACG GCC GTG TAT TAC TGT GCG AGA
HZI	(SEQ ID NO. 35)	AGC CTG AGA TCT GAG GAC ACG GGC GTG TAT TTC TGT GCA AGA
HZVII	(SEQ ID NO. 1)	AGC CTG AGA TCT GAG GAC ACG GCG GTG TAT TAC TGT GCA AGA
HZI	(SEQ ID NO. 36)	- - R - E - T - - - - -
HZVII	(SEQ ID NO. 2)	- - R - E - T - - Y - - -
	(SEQ ID NO. 28)	E Y D E A Y W G Q G T L V T
KRI27VH	(SEQ ID NO. 27)	GAG TAC GAC GAG GCT TAC TGG GGC CAA GGC ACT CTG GTC ACT 336
	(SEQ ID NO. 44)	W G Q G T L V T
DP7-JH4	(SEQ ID NO. 43)	NNN NNN NNN NNN NNN TAC TGG GGC CAA GGA ACT CTG GTC ACT
HZI	(SEQ ID NO. 35)	GAG TAC GAC GAG GCT TAC TGG GGC CAA GGA ACT CTG GTC ACT
HZVII	(SEQ ID NO. 1)	GAG TAC CGG GTT GCC CGT TGG GGC CAA GGA ACT CTG GTC ACT
HZI	(SEQ ID NO. 36)	- - - - - - - - - -
HZVII	(SEQ ID NO. 2)	- - R V - R - - - - -

# REPLACEMENT SHEET

FIG. 2C

	(SEQ ID NO. 28)	V	S	A	
KRI27VH	(SEQ ID NO. 27)	GTC	TCT	GCA	345
	(SEQ ID NO. 44)	V	S	S	
DP7-JH4	(SEQ ID NO. 43)	GTC	TCT	TCA	
HZI	(SEQ ID NO. 35)	GTC	TCT	TCA	
HZVII	(SEQ ID NO. 1)	GTC	TCT	TCA	
HZI	(SEQ ID NO. 36)	-		S	
HZVII	(SEQ ID NO. 2)	-		S	

# REPLACEMENT SHEET

## FIG. 4A

	(SEQ ID NO. 30)	D I L M T Q T P L I L S V T	
KRI27VK	(SEQ ID NO. 29)	GAT ATC TTG ATG ACC CAA ACT CCA CTT ATT TTG TCG GTT ACC 42	
	(SEQ ID NO. 46)	D I V M T Q T P L S L S V T	
DPK12-JK4	(SEQ ID NO. 45)	GAT ATT GTG ATG ACC CAG ACT CCA CTC TCT CTG TCC GTC ACC	
HZI	(SEQ ID NO. 37)	GAT ATC TTG ATG ACC CAA ACT CCA CTT TCT TTG TCG GTT ACC	
HZIV	(SEQ ID NO. 3)	GAT ATC GTG ATG ACC CAA ACT CCA CTT TCT TTG TCG GTT ACC	
HZI	(SEQ ID NO. 38)	- - - - - - - - S - - - -	
HZIV	(SEQ ID NO. 4)	- - V - - - - - - S - - - -	
	(SEQ ID NO. 30)	I G Q P A S I S C K S S Q S	CDR1
KRI27VK	(SEQ ID NO. 29)	ATT GGA CAA CCA GCC TCT ATC TCT TGC AAG TCA AGT CAG AGC 84	
	(SEQ ID NO. 46)	P G Q P A S I S C K S S Q S	
DPK12-JK4	(SEQ ID NO. 45)	CCT GGA CAG CCG GCC TCC ATC TCC TGC AAG TCT AGT CAG AGC	
HZI	(SEQ ID NO. 37)	CCT GGA CAA CCA GCC TCT ATC TCT TGC AAG TCA AGT CAG AGC	
HZIV	(SEQ ID NO. 3)	CCT GGA CAA CCA GCC TCT ATC TCT TGC AAG TCA AGT CAG AGC	
HZI	(SEQ ID NO. 38)	P - - - - - - - - - - -	
HZIV	(SEQ ID NO. 4)	P - - - - - - - - - - -	
	(SEQ ID NO. 30)	L L Y S N G K T Y L N W L L	CDR1
KRI27VK	(SEQ ID NO. 29)	CTC TTA TAT AGT AAT GGA AAA ACC TAT TTG AAT TGG TTA TTA 126	
	(SEQ ID NO. 46)	L L H S D G K T Y L Y W Y L	
DPK12-JK4	(SEQ ID NO. 45)	CTC CTG CAT AGT GAT GGA AAG ACC TAT TTG TAT TGG TAC CTG	
HZI	(SEQ ID NO. 37)	CTC TTA TAT AGT AAT GGA AAA ACC TAT TTG AAT TGG TTA TTA	
HZIV	(SEQ ID NO. 3)	CTC TTA TAT AGT AAT GGA AAA ACC TAT TTG AAT TGG TTA TTA	
HZI	(SEQ ID NO. 38)	- - - - - - - - - - -	
HZIV	(SEQ ID NO. 4)	- - - - - - - - - - -	
	(SEQ ID NO. 30)	Q R P G Q S P K R L I Y L V	CDR2
KRI27VK	(SEQ ID NO. 29)	CAG AGG CCA GGC CAG TCT CCA AAG CGC CTA ATC TAT CTG GTG 168	
	(SEQ ID NO. 46)	Q K P G Q P P Q L L I Y E V	
DPK12-JK4	(SEQ ID NO. 45)	CAG AAG CCA GGC CAG CCT CCA CAG CTC CTG ATC TAT GAA GTT	
HZI	(SEQ ID NO. 37)	CAG AAG CCA GGC CAG TCT CCA AAG CGC CTA ATC TAT CTG GTG	
HZIV	(SEQ ID NO. 3)	CAG AAG CCA GGC CAG CCT CCA CAG CGC CTA ATC TAT CTG GTG	
HZI	(SEQ ID NO. 38)	- K - - - - - - - - - -	
HZIV	(SEQ ID NO. 4)	- K - - - P - Q - - - - -	

# REPLACEMENT SHEET

## FIG. 4B

		CDR2															
		S	K	L	D	S	G	V	P	D	R	F	T	G	S		
KRI27VK	(SEQ ID NO. 30)	TCT	AAA	CTG	GAC	TCT	GGA	GTC	CCT	GAC	AGG	TTC	ACT	GGC	AGT	210	
	(SEQ ID NO. 29)	S	N	R	F	S	G	V	P	D	R	F	S	G	S		
DPK12-JK4	(SEQ ID NO. 46)	TCC	AAC	CGG	TTC	TCT	GGA	GTG	CCA	GAT	AGG	TTC	AGT	GGC	AGC		
HZI	(SEQ ID NO. 37)	TCT	AAA	CTG	GAC	TCT	GGA	GTC	CCT	GAC	AGG	TTC	AGT	GGC	AGT		
HZIV	(SEQ ID NO. 3)	TCT	AAT	CGG	GAC	TCT	GGA	GTC	CCT	GAC	AGG	TTC	AGT	GGC	AGT		
HZI	(SEQ ID NO. 38)	-	-	-	-	-	-	-	-	-	-	-	-	S	-	-	
HZIV	(SEQ ID NO. 4)	-	N	R	-	-	-	-	-	-	-	-	-	S	-	-	
	(SEQ ID NO. 30)	G	S	G	T	D	F	T	L	K	I	I	R	V	E		
KRI27VK	(SEQ ID NO. 29)	GGA	TCA	GGA	ACA	GAT	TTT	ACA	CTG	AAA	ATC	ATC	AGA	GTG	GAG	252	
	(SEQ ID NO. 46)	G	S	G	T	D	F	T	L	K	I	S	R	V	E		
DPK12-JK4	(SEQ ID NO. 37)	GGG	TCA	GGG	ACA	GAT	TTT	ACA	CTG	AAA	ATC	AGC	CGG	GTG	GAG		
HZI	(SEQ ID NO. 3)	GGA	TCA	GGA	ACA	GAT	TTT	ACA	CTG	AAA	ATC	AGC	AGA	GTG	GAG		
HZIV	(SEQ ID NO. 38)	GGA	TCA	GGA	ACA	GAT	TTT	ACA	CTG	AAA	ATC	AGC	AGA	GTG	GAG		
HZI	(SEQ ID NO. 4)	-	-	-	-	-	-	-	-	-	-	-	S	-	-	-	
HZIV	(SEQ ID NO. 4)	-	-	-	-	-	-	-	-	-	-	-	S	-	-	-	
		CDR3															
		A	E	D	L	G	V	Y	Y	C	V	Q	G	T	H		
KRI27VK	(SEQ ID NO. 29)	GCT	GAG	GAT	TTG	GGA	GTT	TAT	TAC	TGC	GTG	CAA	GGT	ACA	CAT	294	
	(SEQ ID NO. 46)	A	E	D	V	G	V	Y	Y	C	M	Q	S	I	Q		
DPK12-JK4	(SEQ ID NO. 37)	GCT	GAG	GAT	GTT	GGG	GTT	TAT	TAC	TGC	ATG	CAA	AGT	ATA	CAG		
HZI	(SEQ ID NO. 3)	GCT	GAG	GAT	GTT	GGA	GTT	TAT	TAC	TGC	GTG	CAA	GGT	ACA	CAT		
HZIV	(SEQ ID NO. 38)	GCT	GAG	GAT	GTT	GGA	GTT	TAT	TAC	TGC	GTG	CAA	GGT	ACA	CAT		
HZI	(SEQ ID NO. 4)	-	-	-	-	V	-	-	-	-	-	-	-	-	-	-	
HZIV	(SEQ ID NO. 4)	-	-	-	V	-	-	-	-	-	-	-	-	-	-	-	
		CDR3															
		F	P	Q	T	F	G	G	G	T	K	L	E	I	K		
KRI27VK	(SEQ ID NO. 29)	TTT	CCT	CAG	ACG	TTC	GGT	GGA	GGG	ACC	AAG	CTG	GAA	ATC	AAA	336	
	(SEQ ID NO. 46)	L	P	T	F	G	G	G	G	T	K	V	E	I	K		
DPK12-JK4	(SEQ ID NO. 37)	CTT	CCT	CCN	ACG	TTC	GGT	GGA	GGC	ACC	AAG	GTG	GAA	ATC	AAA		
HZI	(SEQ ID NO. 3)	TTT	CCT	CAG	ACG	TTC	GGT	GGA	GGC	ACC	AAG	GTG	GAA	ATC	AAA		
HZIV	(SEQ ID NO. 38)	TTT	CCT	CAG	ACG	TTC	GGT	GGA	GGC	ACC	AAG	GTG	GAA	ATC	AAA		
HZI	(SEQ ID NO. 4)	-	-	-	-	-	-	-	-	-	-	V	-	-	-	-	
HZIV	(SEQ ID NO. 4)	-	-	-	-	-	-	-	-	-	-	V	-	-	-	-	